

MEMORANDUM

DATE:	July 18 th , 2016
FROM:	Eric Lancaster
SUBJECT:	Weekly Progress Report @ Gold King
TO:	Kerry Guy

Project: Gold King Interim Water Treatment Plant (IWTP)

Reporting Period: July 11 – July 18

Location: Gladstone, Colorado

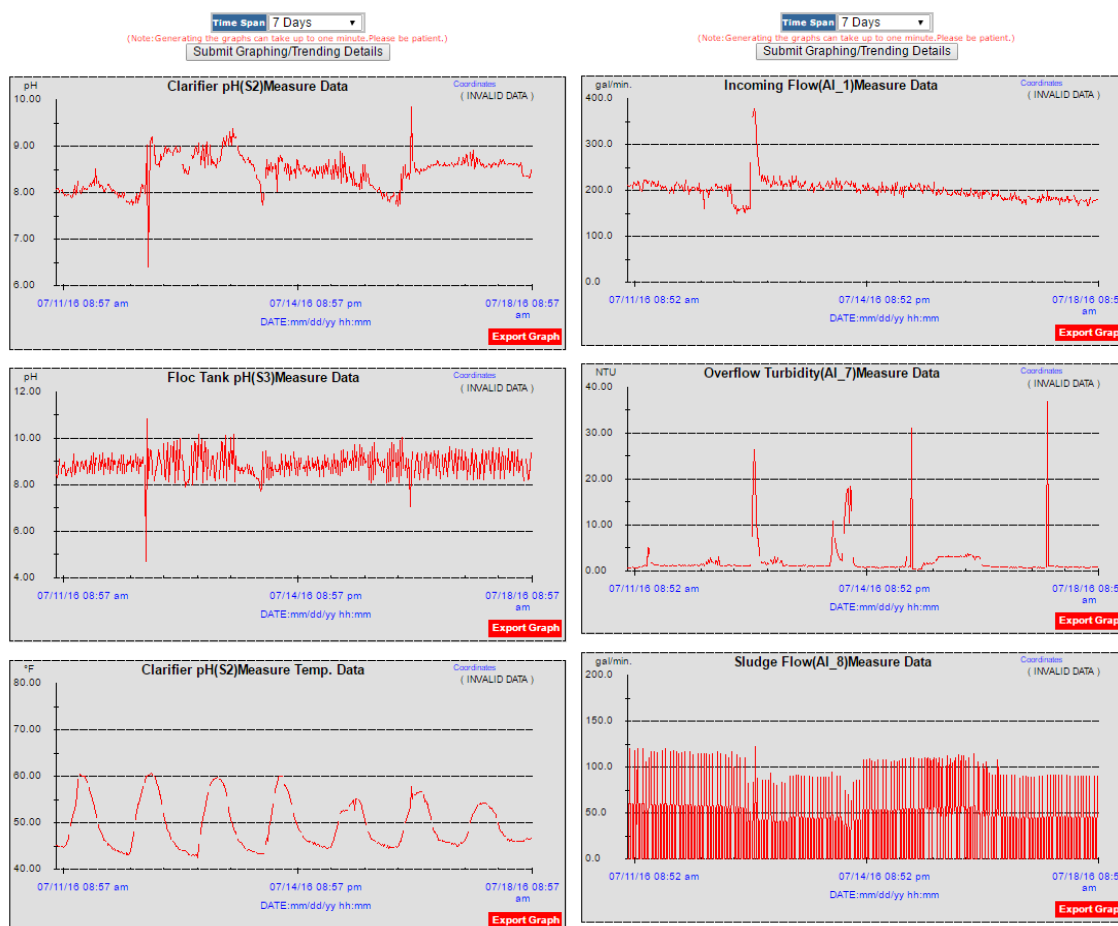
Report No.: 28

Prepared for: Emergency Response Unit – US EPA Region 8

I. General Operations Summary:

IWTS Function/Upsets

- The following graphs provide trending information during the previous 7 days. The dataloggers collect control information from the Lime Circuit (left) and Flow Circuit (right) Programmable Logic Controllers (PLCs) at the Gold King IWTP. Over the reporting period (7/11/16 – 7/18/16 inclusive) Alexco treated 4.63 million gallons at an average flow rate of 459 gpm per the combined outgoing flow meter.



- Please note: Several days each week, the Alexco operators check the pH at both the flocc tank and clarifier discharge. During this time, the probe is placed in vinegar (acid), and three pH buffers – 4, 7, and 10. While the probe is in the acid/buffer, the datalogger may capture one of those points for tracking purposes, which explains the occasional pH spikes seen on the graph. In addition, instantaneous spikes of the Overflow Turbidity Meter are associated with routine cleaning, which can cause the meter to spike temporarily up to 100 NTUs.
- A sample at the IWTP inlet on 7/13 measured 3.44.
- Because of the higher TSS loading, the Phase II clarifier is currently in operation.

Communication System Function Status

- No issues – reliable operations during the reporting period.

Facility or System Related Work, including Repairs & Completions

- Alexco fixed the back-up jetpump to ensure a spare pump is available and ready if/when needed. This pump provides the make-up water to both the lime slurry tank and the polymer tank.
- Alexco fixed the polymer tank agitator which failed a week ago.

II. Identified Problems, Causes, and Solutions (Planned or Implemented)

- Alexco is currently developing pricing and a revised IWTP layout for potential upgrades.

III. System Inspections – Specific elements inspected and finding

- N/A

IV. Site Status

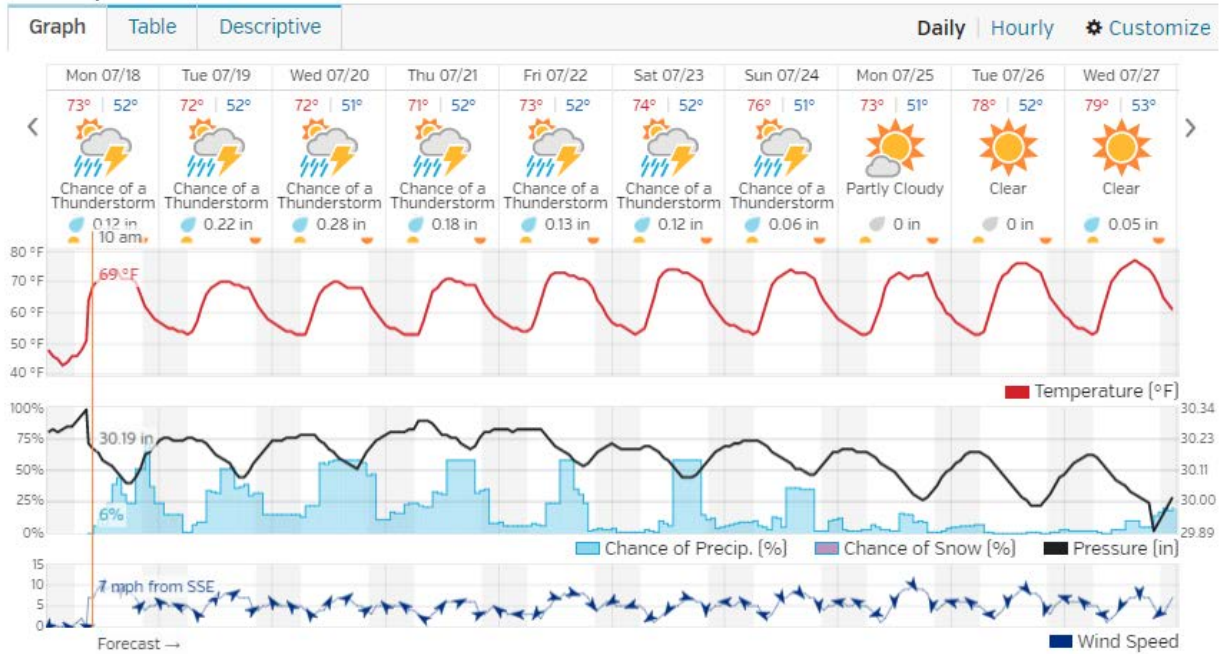
Personnel and equipment onsite

- Alexco currently employs one full-time employee (FTE) who lives in Silverton and oversees all operations at the Gold King IWTP. He is supported by remote operators in Denver, and local sub-contractors as needed.

Weather conditions

- Weather Underground Report for Silverton, CO (7/18/2016 – 7/27/2016)

10-Day Weather Forecast



Pictures from Site



Photo 1: IWTP from the upper road - Taken on 7/13/2016



Photo 2: 2nd clarifier, reactor tank, and IWTP - Taken on 7/13/2016



Photo 3: Large bag in Cell A supported by two smaller bags - Taken on 7/13/2016



Photo 4: Large bag in Cell B, bag in Cell C cut open to improve drying - Taken on 7/13/2016